

Olexander A. Leonets, Igor S. Bogatsky

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# SYSTEM PROBLEMS OF INERTIAL NAVIGATION SYSTEMS



**Part III**

**Software of Platform INS**

**ALEXANDER A. LEONETS,  
IGOR S. BOGATSKY**

**SYSTEM PROBLEMS  
OF INERTIAL  
NAVIGATION SYSTEMS**

**Part III  
Software of Platform INS**

*Monograph*

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Olexander A. Leonets, Igor S. Bogatsky  
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This book describes methods and programs which cover, complementing one another, all the main stages of the functioning of platform inertial navigation systems (PINS) in laboratory and field conditions: calibration, alignment, orientation and navigation problems, integration with other sources of information for various objects. The language of the book is English.

The book is related to the books of Leonets O. A. “System Problems of Strapdown Inertial Navigation Systems. Part 1. Complex solution” and Leonets O. A., Bogatsky I. S. “System problems of strapdown inertial navigation systems. Part 2. Software of SINS” issued in 2018 and 2020 (Second Edition of Part 2 in English) by “The Alpha Reklama” publishing house. It is based on the works of the authors, performed in the field of inertial navigation systems. At the same time, the fact that inertial navigation systems implemented in the strapdown and platform versions have the same theoretical basis is taken into account, since they are based on the same physical principles. This allowed us to transfer the well-proven basic technical solutions of the strapdown system software to the platform system free in the inertial space, taking into account their features.

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